Amendments to the Specification:

Please amend the specification of record as follows. No new matter has been added.

Please amend the paragraph at page 9, between lines 9 and 20, as follows

Figure 8 illustrates an automated setup for fixing a tissue sample using ultrasound. Reagents from container **1** are pumped to a reaction chamber **2** containing sample **3**. A pump **4** pumps solution from chamber **2** to a waste receptacle **5**. A distributor **6** driven by motor **7** selects between different reagent containers such that different reagents can be pumped through reaction chamber **2**. Tissue sample **3** is placed into the reaction chamber **2** with or without tissue cassette **8**. A cover **9** encloses the chamber. A central processing unit (CPU) **10** controls motor **7** and pump **4**. The CPU also controls the temperature of reaction chamber **2** by regulating a heating and cooling plate **11** in contact with the reaction chamber **2**. The CPU also controls an ultrasound generator **12** and regulates the frequency and intensity of ultrasound being produced. The transducers **13** emit ultrasound radiation and the sensors **14** send the digitized information to the central processing unit **10**. The tissue sample can instead be a membrane, a membrane filter, or some other type of sample which is placed into the reaction chamber **2**.